# Multi-Disciplinary Disaster Recovery Assistance .....what to do when the home team can't be there

Carter Ficklen III, CIH

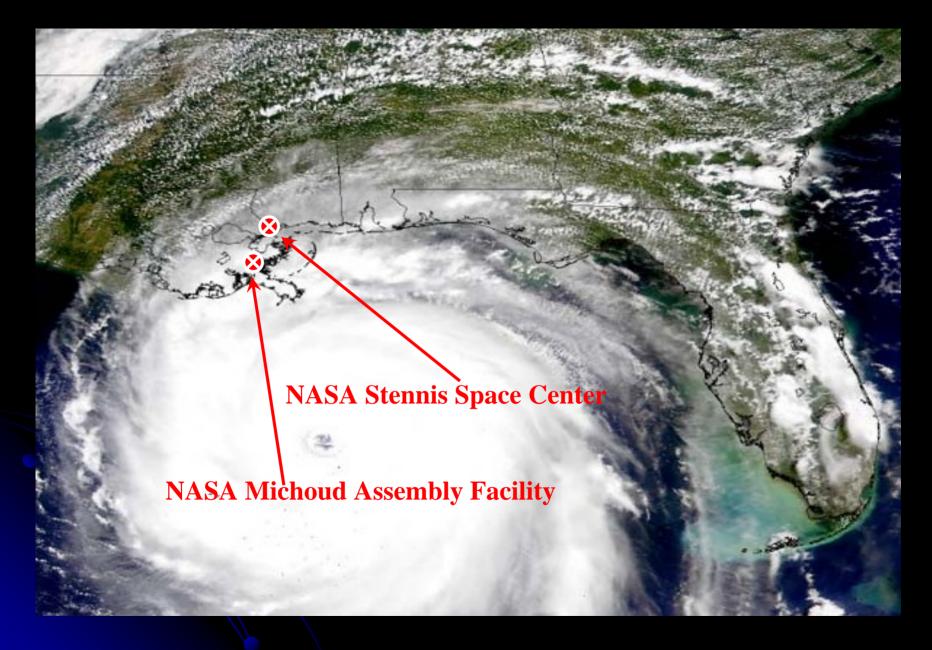
Mainthia Technologies, Inc.
NASA Langley Research Center
Safety and Mission Assurance Contract

#### How you can help the home team

- After a disaster the onsite OEHS professionals might be...
  - Not there
  - Dealing with family, home, and personal matters
  - Overwhelmed by the tragedy
- IHs from "outside" can come in and really make a difference
  - We can navigate from the boardroom to the basement
  - Anticipate, Recognize, Evaluate, Control

### Multi Disciplinary?

- After a disaster there are more than IH issues
  - Medical Assistance for injuries and illness
  - Employee Assistance and Counseling
  - Public Health/Sanitation Issues
  - Safety inside and outside the workplace
  - Environmental Issues
  - .....and whatever else pops up



#### NASA Facilities Impacted by Katrina

#### NASA Facilities on the Gulf Coast

- Both Stennis Spaceflight Center and Michoud Assembly Facility experienced significant impacts from Katrina
- Chief Health and Medical Officer organized trip to assess needs and provide assistance
  - Two IHs
  - One Public Health Expert
  - One Physician

Timeline of Support











8/24 8/29

9/5

9/7

September/early October

Katrina "born"

She hits Gulf Coast

Labor day Initial Assessment Team visits Stennis and Michoud Weekly OEHS Support Teams At Stennis Spaceflight Center

#### Getting Ready to Go on Initial Visit

- Not much notice.....two hours
  - No solid information
  - Try to anticipate conditions and issues
- What to bring
  - AIHA Emergency
     Response Task Force
     Checklist a true
     lifesaver
- Talk to people with experience





## Getting there may not be easy











- Flooding was indescribable
- It was like this for as far as the eye can see







# Michoud Assembly Facility



#### Michoud Situation

- Model effort for preparation, rideout, and recovery
  - Well planned and executed
  - Teamwork was excellent by the 38 members of the rideout team
- Minor facility damage....relative to surrounding areas
  - 4-16,000 gallon per minute pumps kept site dry
- It was an island....
  - Only way in or out was by helicopter
  - Morale was high and coordination was world class
  - Team from NASA Ames established satellite communications and water purification
- Many workers lost everything at home
- Their efforts saved NASA's Space Shuttle Program
  - Production resumed 12 days after Katrina hit

Stennis Space Center



#### **Stennis Situation**

- Much larger, more complex situation than Michoud
  - Opened facility as a shelter just prior to storm
  - A story in itself
    - Primary medical care for community of 8,000 people
    - Served 250,000 meals in one month
    - Potential for Public Health and Safety issues
- Limited Safety and IH staff onsite
  - Many had evacuated or were homeless
    - The one IH that was there deserves a medal
- Lots of effort, not a lot of coordination
  - Communications issues
  - Many key people could not get into work due to personal property damage/loss
- FEMA and other agencies used Stennis as a staging area





#### Stennis







 Roof damage caused major water intrusion in facilities



## You name it, it was there







### The plan to help

- Provide weekly rotations of OEHS teams
  - Thought given to team makeup
    - A combination of past storm experience, management skill.....and MacGuyver
- Sanitation concerns for displaced families
- Address immediate IH issues
- Keeping people safe as they work at home
  - Raise awareness on hazards and how to control them

## Facility Assessments

- Teams formed to assess IH related issues
  - Main issues were asbestos and moisture related
  - Over 240 assessments were performed





#### What did we learn

- Get there sooner....if possible
- Organize and train outside teams ahead of time
  - National Incident Management System (NIMS) Incident Command System Training
  - Streamline and standardize the facility assessment process
  - Develop agency policy/direction for this type of effort
- Ensure Emergency Response and Continuity of Operations Plans are adequate
  - Do you have a plan for afterwards.....months??
  - Determine how to integrate outside assistance
- Improve communications abilities
  - Develop system to account for employees
- Never forget the human side